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East Germany	25X1A 25X1 DATE DISTR 21 April 1954
Activities of the Research Enstitute for Navigation, Endrology, and Soil Science	NO. OF PAGES 4 617952
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The Research Institute for Navigation, Hydrology and Soil Science (Forschungsanstell fuer Schiffahrt, Gewasser- und Bodenkunde), Berlin-Baumschulenweg, Rodelbergweg 6, snæged in the following activities during 1953:

1. Department of Hydraulic Engineering and Navigation

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- a. This Department, with approximately 70 workers, including Dipl.-Ing. Blau (fnu), Dipl.-Ing. Meissner (fnu), Dipl.-Ing. Nakel (fnu), Dipl.-Ing. Physicist Frau Wagenbreth (fnu), Ing. Thomsen (fnu), Ing. Giese (fnu) and Ing. Schinke (fnu), formed the nucleus of the Research Institute. The capabilities of the scientific workers were above average. However, the Department lacked experienced testing engineers and the few experts were overworked. Difficulties in the procurement of material caused frequent delays in the completion of the orders.
- b. Facilities for the Department consisted of approximately 6,000 square meters of shed space in Karlshorst in addition to the 700 square meters of shed space and 10,000 square meters of open space in Potsdam.
- The principal assignments of the Department were model-experiments for river and coastal construction projects and the formation of expert opinions on these problems. In September 1953 work was being performed on models of the Elbe River near Dresden and Magdeburg and on a model of the Oder River near Cauernitz (sic). The project evisaged a solution to the problems in hydraulic engineering in these areas. In Potsdam two large models were used to determine the most favorable harbor approach to Stralsund. For years the port entrance had been blocked by continuous sanding. One model tested the current conditions in the neighborhood of the Isle of Ruegen and the second model tested conditions between Ruegen and Hiddensse. Plans were made to dredge the Bodden between Ruegen and Hiddensee and cut through the northern part of Hiddensee. Experiments will be concluded in the spring of 1954. Another large model (3,400 square meters) concerned the improvement of the port entrance at Wishar. Experiments on dams and channel wairs were concluded and will be published in the near future. A model of the sluice for the Niederparetz Canal also was tested at the Research Institute. Larger projects and experiments on the 25X1 cenalization of the Elbe River were planned for the future.

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- Because of amorous orders for practical application, fundamental research was forced into the background. One basic experiment concerned suspended materials, Several theoretical experiments, such as one on the development of pot boles in canals and rivers, were in progress.
- The State Secretariat of Shipping was the agency which placed orders with the Department of Hydraulia Engineering. Tap. Annl (fun) of the Eurem of Savigation and Dr. Ing. Klaus (fun) of the State Secretariat provided linison with the Research Institute. Both men were members of the SED. The Institute also received a large order from the Sea Police. This dealt with the construction of the so-called "fishing ports" on the Tale of Rusgen. After 17 June 1953 the order was withdrawn and the Director of the Research Institute personally had to turn in to the Ministry of the Interior all the material concerning the project. The surfacers who had been employed on the project. Or. Zechiesche (fun), Dipl.—Ing. Dibn., Ing. Thomsen, Ing. Feliter (fun), Dipl.—Ing. Janke (fun), Martin (fun) and Vepel (fun), were required to take another outher a Although the Largest part of this assignment was discontinued, some of the work already had been completed, particularly the examination of ground conditions in the area of Glove.

Department of Foundation Engineering

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- a. The Department employed approximately 40 workers and was directed by Diplom Ing. Jasake. The Director of the Laboratory was Shint Engineer Sanoralish (fau). a woman from West Berlin. She had the requisition of being very proficient and was given an individual contract.
- b. The Department was concerned not only with construction projects in the field of hydraulic engineering but also with the fundamentals of construction and the compilation of surveys of all large construction projects in the DDR. Specialized firms were responsible for delibers at the construction site but were under the supervision of a decilling expert expointed by the Research Institute. The Department performed pressure is the and friction tests on various samples and englished the results into surveys. Important ensignments in 1953 included istudies for the construction of the Sisenbustter Kombinat Cat, the Misdeeparate Canal, Stalienlies, the State Opera Nouse, the Soviet Embassy on Unter den Lindam, the fishing port at Theway, Rapp-Sode-Dam, the Institute for Physical Culture in Leigning and the Tuerstanberg boughts project. The projects of the Department of Fauntation Engineering were requested by the ministries, the Bau-Inion and the State Secretarian of Shipping.
- construction of dama. The technical equipment is a poor and only basis construction of dama. The batterian optimization was available in the batterian on Rodelbergueg. The new construction at Alt-Strehlaus will provide fire time pure laboratory space. However, the procurement of the newseery instruments and appearing will reasin difficult because these are made principally of nonfederal materials.

Georgy sies Group

This group, directed by Hipl. Resphysicist Dr. Schumenn (fun), evolved from the Department of Foundation Engineering. The group worked on only one project. Morross the Department of Foundation Engineering continued foundation thats in the mechanical field. Dr. Schumenn attempted to double a special process based on former research done by the DECESO. He completed construction of an oscillator regalized for his work. Although more than DME 100,000 were spent for this experiment, Dr. Schumann's progress was very slow. The deadline for bis reserved satigment sets 31 May 1953 but in September the apparatus (Geract) had not been completed and practical tests

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had not started. Dipl.-Ing. Redenstuebeer (fru) was Dr. Sebmann's easistent. Buth was warn mader 30 years of one and their work was a controversial issue.

Prokerburgs of Muchica Technique and Thorona Communica

- 6. This Department was directed by Ing. Roobke (Ing. and necessed its analguments from the State Secretariat of Shipping and the DSUP. The Department lacked permissed. No expects were available. Roobke bed some knowledge in his field but he did not have qualified assistants.
- Two research essipations were completed, the results of which were treated confidentially. One of the projects dealt with the improvement of purification arthons for water to be used in whip botters. The experiments showed that the formation of botter scale could be reduced considerably by the addition of chemicals. In Sectember 1953 several experimental vessels of the DSU wave using the process. All vessels of the DSU were to employ the method in 1954. The State Secretarist of Shipping expected to save about DME 600,000 yearly on coal by using the new process. Because of this, a bonus was suggested for Roebke. The second resignment concerned construction of an open-six grate (Freilm'trest) for ship betters. Through utilization of this grate large amounts of fuel will be caved. The grate was installed on several vessels on an experimental boxis.
- s. The Department did not have its own testing installation and had to rely for its experiments, on the sessals but at its disposal by the DSU. The stationary testing installation is alt-Stranlau was to be completed by the end of 1993. Technical equipment was tacking. Only two very old ship-propelling installations were put at the disposal of the Department. These had been in a shipwreak and were left in the water for a long time. Attends were being made to rebuild the machines and not ine. To use.

5. Department of Ship Inspection

- This Department, directed by Ing. Asians (fou), had no scientific importance. It was the successor to the former <u>Height for Ship Inspection for the area of Germany</u> which is now the East Zone. In addition to the Director, the Department suplayed one old, experienced worker who was formerly with the <u>Reichsant</u> and four young surreving ungineers.
- b. The Department controlled and confirmed all calibration certificates originating in the East Zone for the and waterway- and sea-poing vessels, and also devaloped an instrument which was an improvement over former calibration instruments. In September 1953 the work consisted of formulating new celibration regulations for the DDR. The Department was also charged with control of the training of calibration expects who were employed by the waterway offices.

Department of Traffic Research

- a. Dr. Pusch (fau) was the Director of this generalent. The staff was very wall qualified. Among the most important workers were Dr. Reichmann (fan), Dipl. Economist Resdel (fau), Pipl. Secural Ramitzsch (fau) and Captain Benerafeird (fau).
- t. The principal tasks of the Department concerned research on the movement of narchandise within the UNR and within the export trade, organization of night navigation, compilation of data concerning the profitableness of stipping and transshipping, training vessel problems and account surveys of big construction projects in the field of bydraulic engineering. The Department also cooperated in the astablishment of new facility tariffe. The Department had a library which was very poor. Yest of the statistical material required for research on the movement of goods was not available.

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